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 NEWS  13 DEC 17  THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
 NEWS  14 DEC 30  EPFULL: New patent full text database to be available on STN
 NEWS  15 DEC 30  CAPLUS - PATENT COVERAGE EXPANDED
 NEWS  16 JAN 03  No connect-hour charges in EPFULL during January and
                  February 2005
 NEWS  17 JAN 26  CA/CAPLUS - Expanded patent coverage to include the Russian
                  Agency for Patents and Trademarks (ROSPATENT)

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=> s (drug delivery) and viscous
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L1        5624 (DRUG DELIVERY) AND VISCOUS

=> s l1 and endocytosis
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=> s l2 and hydrogel
L3          47 L2 AND HYDROGEL

=> s l3 and (apparent viscosity)
L4           7 L3 AND (APPARENT VISCOSITY)

=> d l4 1-7 ibib abs

L4   ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        1997:617964  CAPLUS
DOCUMENT NUMBER:         127:268031
TITLE:                   Materials and methods for enhancing cellular
                         internalization
INVENTOR(S):             Edwards, David A.; Deaver, Daniel R.; Langer, Robert
                         S.
PATENT ASSIGNEE(S):      Penn State Research Foundation, USA; Massachusetts
                         Institute of Technology
SOURCE:                  PCT Int. Appl., 39 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 9732572            A2    19970912    WO 1997-US3276          19970303
     WO 9732572            A3    19971127
         W:  AU, CA, JP, KR
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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AU 9720631	A1	19970922	AU 1997-20631		19970303
EP 885002	A2	19981223	EP 1997-908818		19970303
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
US 5985320	A	19991116	US 1997-810275		19970303
JP 2000506165	T2	20000523	JP 1997-531869		19970303
PRIORITY APPLN. INFO.:			US 1996-12721P	P	19960304
			WO 1997-US3276	W	19970303

AB Compns. and methods for delivering agents across cell membranes are disclosed. The compns. include an agent to be delivered; a **viscous** material such as a **hydrogel**, lipogel, or **viscous** sol; and optionally a carrier that includes a ligand that binds to or interacts with cell surface receptors. The agent to be delivered binds to or otherwise interacts with cell surface receptors; is attached covalently or ionically to a mol. that binds to or interacts with a cell surface receptor; or is associated with the carrier. Agents to be delivered include bioactive compds. and diagnostic agents. The compns. have an **apparent viscosity** roughly equal to the viscosity of the cytosol in the cell to which the agent is to be delivered. The rate of cellular internalization is higher when the viscosity of the **viscous** material and that of the cytosol in the cell are approx. the same, relative to when they are not the same. The compns. enhance cellular entry of bioactive agents and diagnostic materials when administered vaginally, nasally, rectally, ocularly, orally, or to the respiratory or pulmonary system. Thus, uptake of 125I-labeled transferrin into human K562 erythroleukemia cells by **endocytosis** from aqueous solns. containing 0.0-1.8% methylcellulose increased slowly with increasing methylcellulose concentration up to 1.25%, then rapidly up to 1.7%, and decreased rapidly at higher concns.; the **apparent viscosity** of methylcellulose solns. in the 1.25-1.7% concentration range was similar to that in the K562 cell cytoplasm. Intravaginal administration of 100 μg leuprolide, a vaginal epithelial LH-RH receptor-binding drug, to sheep in a 1.5% or 1.75% methylcellulose **hydrogel** resulted in an increase in serum LH concentration

L4 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2004:139366 USPATFULL
TITLE:	Compositions and methods for enhancing receptor-mediated cellular internalization
INVENTOR(S):	Deaver, Daniel R., Franklin, MA, UNITED STATES Edwards, David A., Boston, MA, UNITED STATES
PATENT ASSIGNEE(S):	The Penn State Research Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004106542	A1	20040603
APPLICATION INFO.:	US 2003-717251	A1	20031119 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-120940, filed on 10 Apr 2002, GRANTED, Pat. No. US 6652873 Continuation of Ser. No. US 1999-412821, filed on 5 Oct 1999, GRANTED, Pat. No. US 6387390		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	PATREA L. PABST, HOLLAND & KNIGHT LLP, SUITE 2000, ONE ATLANTIC CENTER, 1201 WEST PEACHTREE STREET, N.E., ATLANTA, GA, 30309-3400
NUMBER OF CLAIMS:	22
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	5 Drawing Page(s)

LINE COUNT: 1149
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible **viscous** material, such as a **hydrogel**, lipogel, or highly **viscous** soluble The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied topically orally, nasally, vaginally, rectally, and ocularly. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 3 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2003:95806 USPATFULL
TITLE: Process for the preparation of aqueous dispersions of particles of water-soluble polymers and the particles obtained
INVENTOR(S): Vanderhoff, John W., Bethlehem, PA, United States
Lu, Cheng Xun, Somerset, NJ, United States
Lee, Clarence C., Lilburn, GA, United States
Tsai, Chi-Chun, Lawrenceville, GA, United States
PATENT ASSIGNEE(S): C. R. Bard, Inc., Murray Hill, NJ, United States (U.S. corporation)
Lehigh University, Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6544503	B1	20030408
APPLICATION INFO.:	US 2000-563037		20000501 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-989888, filed on 12 Dec 1997, now patented, Pat. No. US 6214331 Continuation-in-part of Ser. No. US 1996-659770, filed on 6 Jun 1996, now abandoned Continuation-in-part of Ser. No. US 1995-466676, filed on 6 Jun 1995, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Page, Thurman K.
ASSISTANT EXAMINER: Nola-Baron, Liliana Di
LEGAL REPRESENTATIVE: Kilpatrick Stockton LLP
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 3525
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention is a process for the preparation of crosslinked water-swellable polymer particles. First, an aqueous polymer solution containing a water-soluble polymer having at least one functional group or charge, is combined with aqueous medium. The aqueous polymer solution is then mixed under moderate agitation with an oil medium and an emulsifier to form an emulsion of droplets of the water-soluble polymer. A crosslinking agent capable of crosslinking the functional groups and/or charges in the water-soluble polymer is then added to the emulsion to form crosslinked water-swellable polymer particles. The invention also includes the particles formed by the process and aqueous dispersions containing the particles which are useful for administering to an individual. The particles of the invention are useful for

implantation, soft tissue augmentation, and scaffolding to promote cell growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 4 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2002:213430 USPATFULL
TITLE: Compositions and methods for enhancing receptor-mediated cellular internalization
INVENTOR(S): Deaver, Daniel R., Franklin, MA, UNITED STATES
Edwards, David A., Boston, MA, UNITED STATES
PATENT ASSIGNEE(S): The Penn State Research Foundation (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002114803	A1	20020822
	US 6652873	B2	20031125
APPLICATION INFO.:	US 2002-120940	A1	20020410 (10)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1999-412821, filed on 5 Oct 1999, GRANTED, Pat. No. US 6387390

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: PATREA L. PABST, HOLLAND & KNIGHT LLP, SUITE 2000, ONE ATLANTIC CENTER, 1201 WEST PEACHTREE STREET, N.E., ATLANTA, GA, 30309-3400
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1149
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible **viscous** material, such as a **hydrogel**, lipogel, or highly **viscous** soluble The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied topically orally, nasally, vaginally, rectally, and ocularly. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 5 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2002:108620 USPATFULL
TITLE: Compositions and methods for enhancing receptor-mediated cellular internalization
INVENTOR(S): Deaver, Daniel R., Franklin, MA, United States
Edwards, David A., Boston, MA, United States
PATENT ASSIGNEE(S): The Penn State Research Foundation, University Park, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6387390	B1	20020514
APPLICATION INFO.:	US 1999-412821		19991005 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-103117P	19981005 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Azpuru, Carlos A.
LEGAL REPRESENTATIVE: Holland & Knight LLP
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1185
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for improving cellular internalization of one or more compounds are disclosed. The compositions include a compound to be delivered and a biocompatible **viscous** material, such as a **hydrogel**, lipogel, or highly **viscous** soluble The composition also include, or are administered in conjunction with, an enhancer in an amount effective to maximize expression of or binding to receptors and enhance RME of the compound into the cells. This leads to high transport rates of compounds to be delivered across cell membranes, facilitating more efficient delivery of drugs and diagnostic agents. Compositions are applied topically orally, nasally, vaginally, rectally, and ocularly. The enhancer is administered with the composition or separately, either systemically or preferably locally. The compound to be delivered can also be the enhancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 6 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2001:51555 USPATFULL
TITLE: Process for the preparation of aqueous dispersions of particles of water-soluble polymers and the particles obtained
INVENTOR(S): Vanderhoff, John W., Bethlehem, PA, United States
Lu, Cheng Xun, Somerset, NJ, United States
Lee, Clarence C., Lilburn, GA, United States
Tsai, Chi-Chun, Lawrenceville, GA, United States
PATENT ASSIGNEE(S): C. R. Bard, Inc., Murray Hill, NJ, United States (U.S. corporation)
Lehigh University, Bethlehem, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6214331	B1	20010410
APPLICATION INFO.:	US 1997-989888		19971212 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-659770, filed on 6 Jun 1996, now abandoned Continuation-in-part of Ser. No. US 1995-466676, filed on 6 Jun 1995, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Kulkosky, Peter F.
LEGAL REPRESENTATIVE: Kilpatrick Stockton LLP
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
LINE COUNT: 3840
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is a process for the preparation of crosslinked water-swellable polymer particles. First, an aqueous polymer solution containing a water-soluble polymer having at least one functional group or charge, is combined with aqueous medium. The aqueous polymer solution is then mixed under moderate agitation with an oil medium and an emulsifier to form an emulsion of droplets of the water-soluble polymer.

A crosslinking agent capable of crosslinking the functional groups and/or charges in the water-soluble polymer is then added to the emulsion to form crosslinked water-swellable polymer particles. The invention also includes the particles formed by the process and aqueous dispersions containing the particles which are useful for administering to an individual. The particles of the invention are useful for implantation, soft tissue augmentation, and scaffolding to promote cell growth.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 7 OF 7 USPATFULL on STN

ACCESSION NUMBER:	1999:146020 USPATFULL		
TITLE:	Materials and methods for enhancing cellular internalization		
INVENTOR(S):	Edwards, David A., State College, PA, United States Deaver, Daniel R., Port Matilda, PA, United States Langer, Robert S., Newton, MA, United States		
PATENT ASSIGNEE(S):	The Penn State Research Foundation, University Park, PA, United States (U.S. corporation)		
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5985320		19991116
APPLICATION INFO.:	US 1997-810275		19970303 (8)
	NUMBER		DATE
PRIORITY INFORMATION:	US 1996-12721P		19960304 (60)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kishore, Gollamudi S.		
LEGAL REPRESENTATIVE:	Monahan, Thomas J.		
NUMBER OF CLAIMS:	33		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Figure(s); 7 Drawing Page(s)		
LINE COUNT:	991		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for delivering agents across cell membranes are disclosed. The compositions include an agent to be delivered, a **viscous** material, such as a **hydrogel**, lipogel or **viscous** sol, and, optionally, a carrier that includes a ligand that binds to or interacts with cell surface receptors. The agent to be delivered binds to or otherwise interacts with cell surface receptors, is attached, either covalently or ionically to a molecule that binds to or interacts with a cell surface receptor, or is associated with the carrier. Agents to be delivered include bioactive compounds and diagnostic agents. The compositions have an **apparent viscosity** roughly equal to the viscosity of the cytosol in the cell to which the agent is to be delivered. The rate of cellular internalization is higher when the viscosity of the **viscous** material and that of the cytosol in the cell are approximately the same, relative to when they are not the same. The compositions enhance cellular entry of bioactive agents and diagnostic materials when administered vaginally, nasally, rectally ocularly, orally, or to the respiratory or pulmonary system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.